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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/657,673 09/05/2		09/05/2003	Amos Nussinovitch	85189-5100	2188	
28765	7590	07/12/2006	EXAMINER			
WINSTON	& STRA	AWN LLP	NAFF, DAVID M			
1700 K STR	EET, N.W	V .	·			
WASHING	TON, DC	20006	ART UNIT	PAPER NUMBER		
			1651			
			DATE MAILED: 07/12/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)						
Office Action Summary			10/657,673		NUSSINOVITCH ET AL					
			Examiner		Art Unit					
			David M. Naff		1651					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)⊠	Responsive to communication(s) file	ed on <u>29 Ma</u>	rch 2006.							
2a) <u></u>	This action is FINAL .	2b)⊠ This a	action is non-final.							
3)	Since this application is in condition	for allowand	ce except for formal m	natters, pros	secution as to the	e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
4)🖂	Claim(s) 1-40 is/are pending in the a	application.								
	4a) Of the above claim(s) <u>22-40</u> is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.									
6)⊠	Claim(s) 1-21 is/are rejected.									
7)	Claim(s) is/are objected to.									
8)	Claim(s) are subject to restrict	ction and/or	election requirement.							
Applicati	on Papers									
9)	The specification is objected to by the	e Examiner.								
10)🛛	The drawing(s) filed on <u>9/5/03 & 2/4/</u>	<u>′04</u> is/are: a)⊠ accepted or b)□	objected to	by the Examine	er.				
	Applicant may not request that any obje	ction to the d	rawing(s) be held in abe	yance. See	37 CFR 1.85(a).					
	Replacement drawing sheet(s) including	the correction	on is required if the draw	ving(s) is obje	ected to. See 37 C	FR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority u	ınder 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 										
Attachmen 1) Notice 2) Notice 3) Inform	See the attached detailed Office action (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Pmation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date 9/5/06.	· PTO-948)	4) Intervie	ew Summary (I No(s)/Mail Dat of Informal Pa	PTO-413)	O-152)				

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DETAILED ACTION

Claims in the application are 1-40.

A response of 3/29/06 to a restriction requirement of 3/7/06 amended claims 22, 31 and 36, and elected Group I claims 1-21 without traverse.

Claims 22-40 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 3/29/06.

The documents listed on form 1449 of 9/5/03 have been lined through and not considered unless listed on form 892 since form 1449 became illegible when scanned into the computer. Another form 1449 should be submitted. Any documents listed on form 1449 that are also listed on form 892 should be omitted from form 1449.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 7-13 and 16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Marois et al (4,818,530).

The claims are drawn to solid cellular hydrocolloid carriers comprising dried hydrocolloid beads comprising viable microorganisms

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entrapped therein, and the dried beads have a residual moisture content of no more than 20%.

Marois et al disclose dried alginate pellets containing a fungi such as *Trichoderma viride* (Example 13) that controls soilborne diseases. The pellets have been dried to about 10% moisture (col 5, line 13).

The dried pellets containing a microorganism of Marois et al are the same as the solid cellular hydrocolloid carriers presently claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35

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U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marois et al in view of Sudoma (4,956,295).

The claims require the dried beads to be obtained by freeze drying. The hydrocolloid may contain a cryoprotectant.

Sudoma discloses (col 5, lines 20-25) freeze drying in the presence of a cryoprotectant to provide a storage stable bacteria composition without being refrigerated (col 3, line 24).

When producing the dried beads of Marois et al, it would have been obvious to use freeze drying and a cryoprotectant as suggested by Sudoma to obtain dried beads stable during storage without refrigeration.

Claim Rejections - 35 USC § 103

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marois et al in view of Elliott et al (5,030,562) or Pusey et al (4,764,371).

The claims require the microorganisms in the beads to be bacteria capable of controlling plant pathogens.

Elliott et al and Pusey et al disclose bacteria that control plant pathogens.

It would have been obvious to replace the fungi that control soilborne disease in the pellets of Marois et al with bacteria that controls a plant pathogen as suggested by Elliott et al or Pusey et al

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to obtain the function of the bacteria for controlling a plant pathogen.

Conclusion

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The patents listed on form 892 but not applied are to make of record additional prior art relating to the present invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M. Naff Primary Examiner Art Unit 1651

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DMN 6/26/06